

1/33

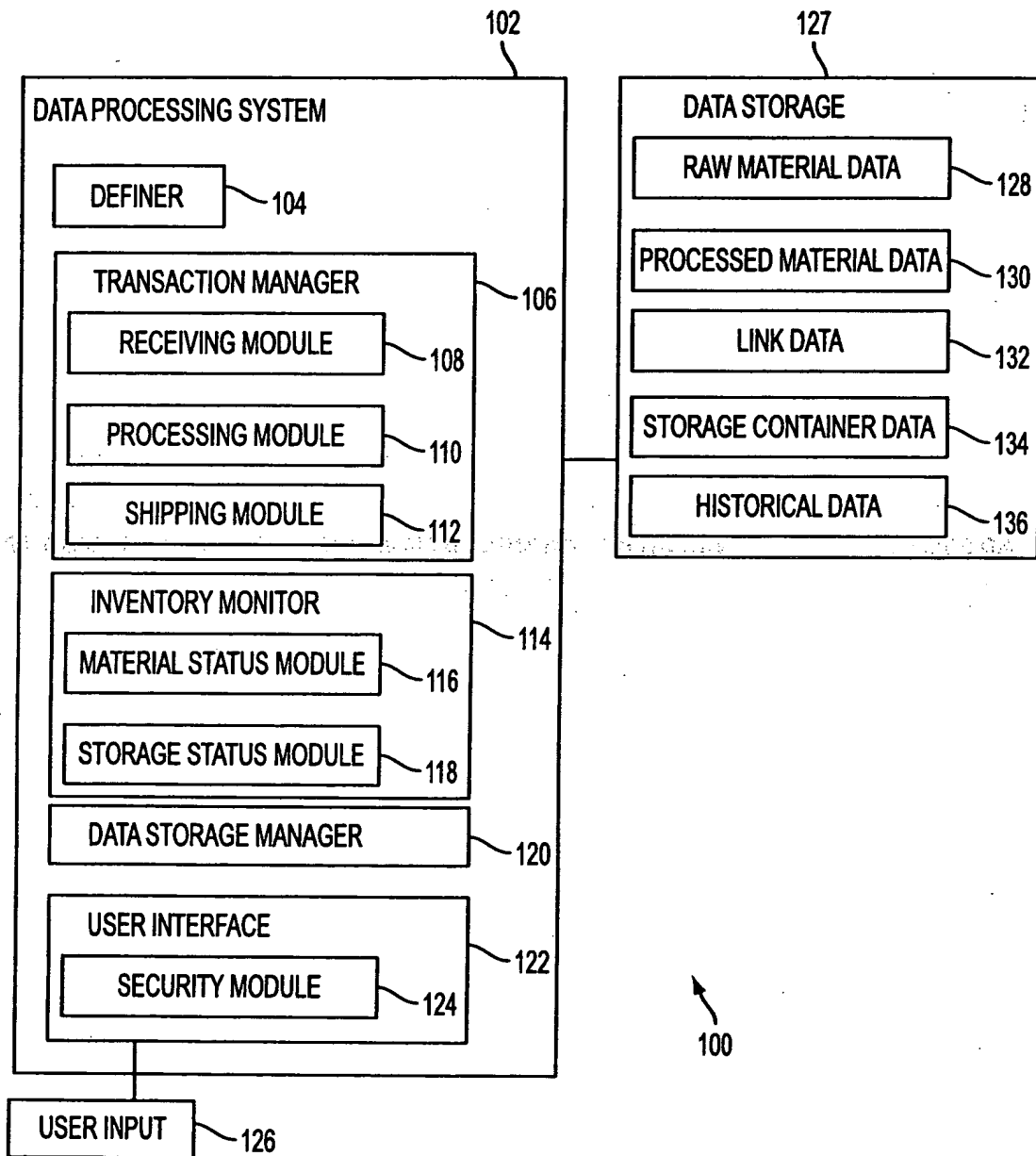
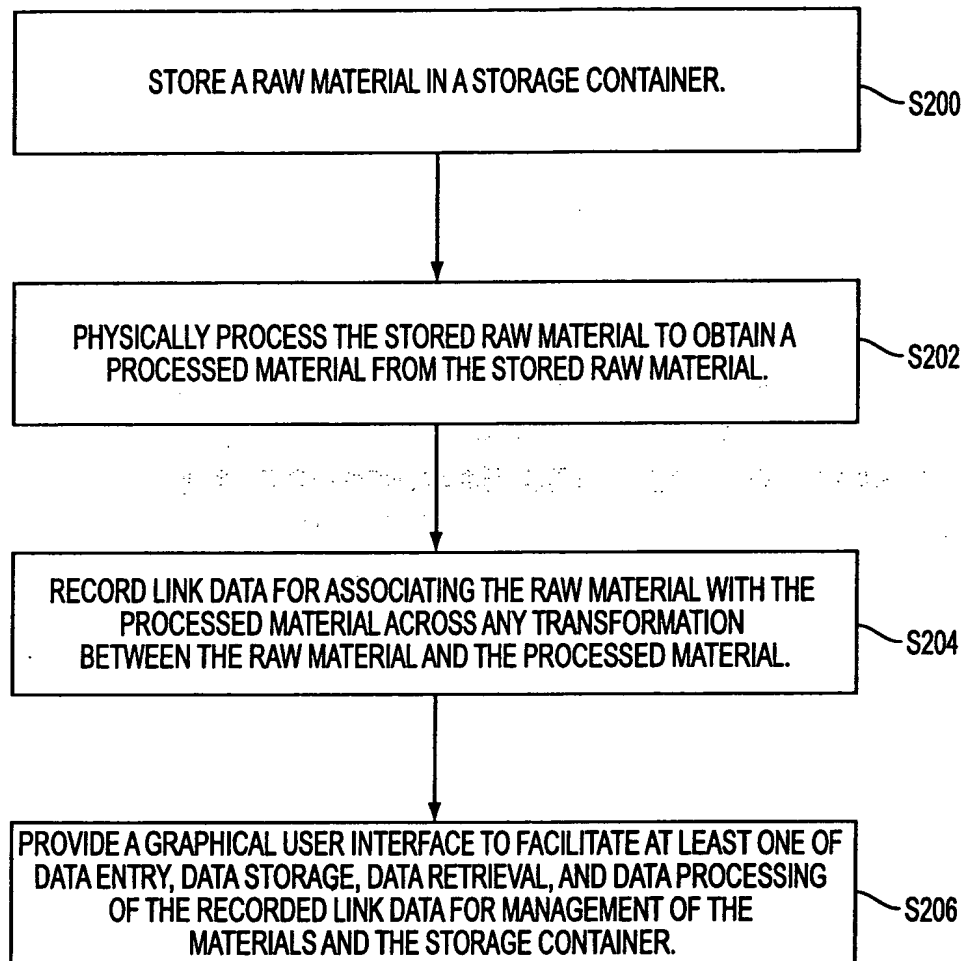


FIG. 1

2/33



**FIG. 2**

3/33

Location Configuration

Current locations in the system

Current Location List (Click to Edit)

Location Name:

Address Line 1:

Address Line 2:

City:

Zip:

Country...

State/Province...

Phone:

Ext:

Fax:

Preferred Capacity Unit...

Dimension Unit...

Add/Save

Delete

Reset

Defines units for reports -  
Bushels, pounds, etc.

FIG. 3

4/33

Bin Configuration

Current Bin List (Click to Edit)

Elevator 1 - Silo 1  
Elevator 1 - Silo 2  
Elevator 1 - Silo 3  
Elevator 1 - Silo 4  
Elevator 1 - Silo 5  
Elevator 2 - Silo 1  
Elevator 2 - Silo 2  
Elevator 2 - Silo 3

Bin Name: Silo 2

Location... Elevator 1

Shape... Elevator 1

Floor/Bottom... Elevator 1

Ceiling Type... Elevator 1

Flow Type... FIFO

Units... Bushels

Pack Factor: 2.1

☐ Total Capacity: Bushels

☒ Capacity Per Unit:

Quantity: 1000 Bushels

Per: 1 Units... Foot

Effective Height: 300

Units... Foot

Add/Save

Delete

Reset

Defines the flow method to use  
for calculating outbound  
movement of product from bin  
(FIFO, LIFO, or Perpetual)

FIG. 4

MillSource Bin Wire Frame

File | Elevator Operations | Mill Operations

Home | Receiving | Elevator | Mill | Processing | Shipping | Returns

Each level can have attributes that roll-up in a product

Reference Data Management

Reference Data Tree View

Categories

Grains

- Wheat
  - Hard Red Winter
  - Soft White Winter
  - Durum
    - 049845
    - 096877
- Corn
  - Yellow Corn #2
  - 546654
- Mixes
  - H50
  - Bouncer
  - Pizza Flour
  - L48
  - Child
  - RFDR
  - Pure Dark Rye

Product Characteristics

Attributes

New Attributes:

Name:Moisture

Abbrev: MST

Unit:Percent

Average:True

New Save Delete

Wheat Attributes (click to edit):

Name	Abbrev	Unit	Average

Inherited Attributes:

Name	Abbrev	Unit	Average

View: Reference Data Management

FIG. 5

MillSource Bin Wire Frame

File | Elevator Operations | Mill Operations | Lab | Packaging | Shipping | Reports | Help

Home

Receiving

Elevator

Mill

Lab

Packaging

Shipping

Reports

Reference Data Management

Reference Data Tree View

Categories

Products can have assigned color

Product Characteristics

Attributes

Product Name: Bounce ENR

SKU: 123456789

Description:

Color... 586394

Pack Factor: 1.0

Conversion Factor

ass... Pound

Factor: 0.63

Volume... Bushel

New

Save

Delete

View: Reference Data Management

FIG. 6

7/33

Product Specification Sheet

Category...

Current Product List (click to edit)

Mixes

Product Name	SKU	Specification
Mix A		N
Mix B		N
Mix C		N
Mix OO		N

Product can be composed of up to five products in the specification

Product Name: Bouncer ENR

Product 1...

Product 2...

Product 3...

Product 4...

Product 5...

Sol White Winter

Hard Red Winter

50

50

%

%

%

%

%

Total: 100

Add/Save

Delete

Reset

FIG. 7

8/33

Elimination Product Configuration

Ingredient Configuration

Current Ingredient List (Click to Edit)

Ingredient Name:

Ingredient Abbreviation:

Description:

Manufacturer:

SKU/Product Id:

Status...

Add/Save

Delete

Reset

FIG. 8



9/33

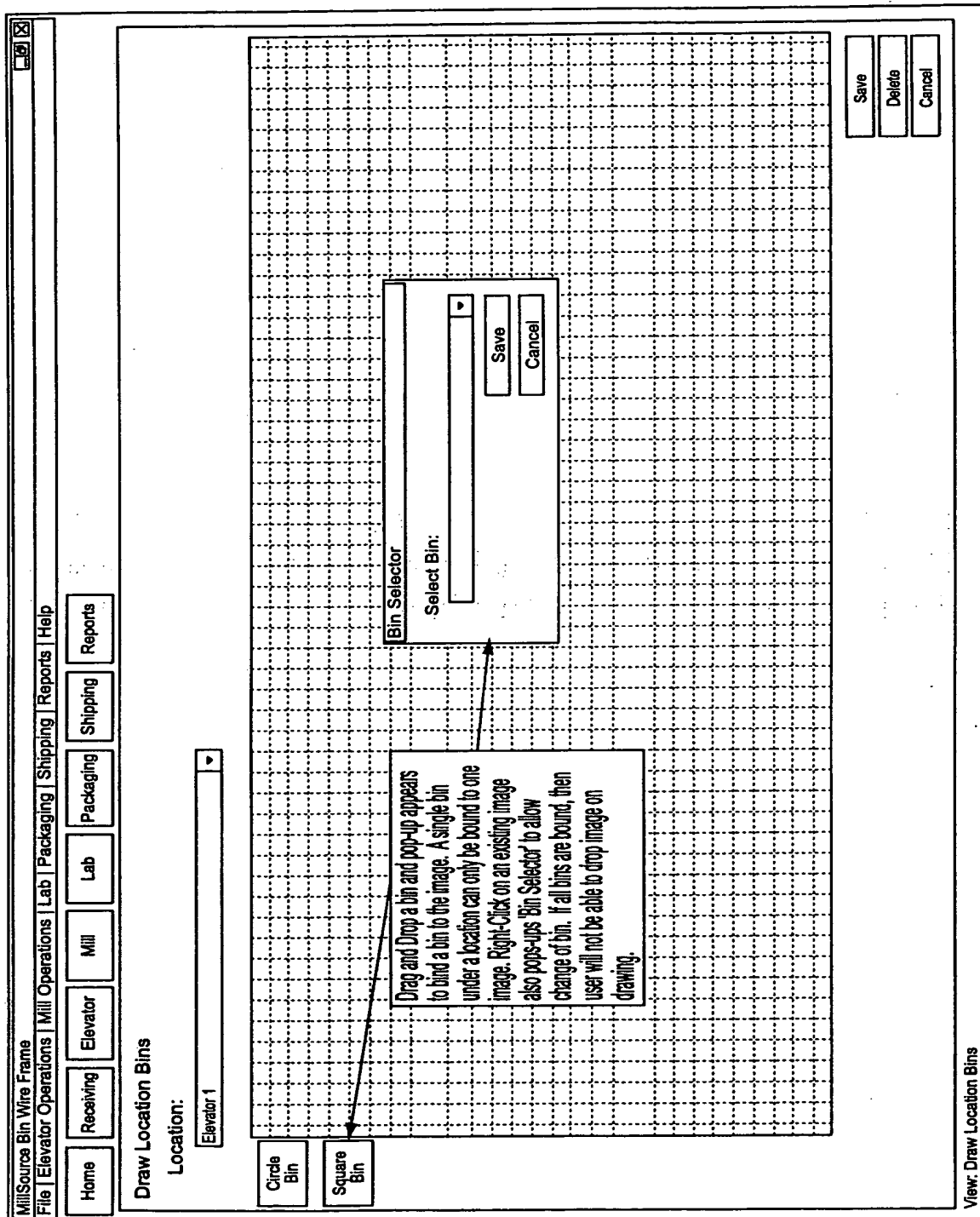


FIG. 9

10/33

**MillSource Bin Wire Frame**  
File | Elevator Operations | Mill Operations | Lab | Packaging | Shipping | Reports | Help

Home | Receiving | Elevator | Mill | Lab | Packaging | Shipping | Reports

Add Ticket | Edit Ticket | Void Ticket

**Receiving**

Lot Name/Number: 3/25/2003

Date... 3/25/2003

Time... 2:00 PM

Supplier... Big John's

Carrier... Yellow Freight

License Number: YELL-123

Commodity... Wheat

Class... Hard Red Winter

Variety... #10506

Mass Unit... Pounds

Test Weight: .62

Volume Unit... Bushels

Attribute Values

Protein: 11.3

Moisture: 2.3

Damage: 1.3 %

Foreign Material: 5 %

Attribute list is populated based on product

Attribute lists will vary so do not auto-start selector (dynamic draw on panel; scroll displays as needed)

Validate numeric only with '.' allowed for floating decimals (applies % attributes) when not using the input control below

Changes based on carrier type (truck, rail, vessel; license, railcar, vessel respectively)

Uses test weight to calculate; otherwise defaults to product conversion factor

Next Step >>> Clear

FIG. 10

11/33

MillSource Bin Wire Frame

File | Elevator Operations | Mill Operations | Bin Selector

Home | Receiving | Elevator

Add Ticket | Edit Ticket | Void Ticket

Current selection:

Please select bin:

Location - Bin  
Elevator 1 - Silo 1

Current Product  
☒ Soft White Winter

Current Quantity  
10,000 bu

Available Space  
20,000 bu

Bin Selector

Enter

Cancel

Lot Name/Number	Bin 1...	Flour AB	Final Product Mill - Silo 1	34,500 Bu	Transfer Percentage
3/30/2003 - 1 - 1					50
3/30/2003 - 1 - 2					50

Total Transfer: 100

Commit

Reset

Close

© Print Copies: 1

FIG. 11

12/33



13/33

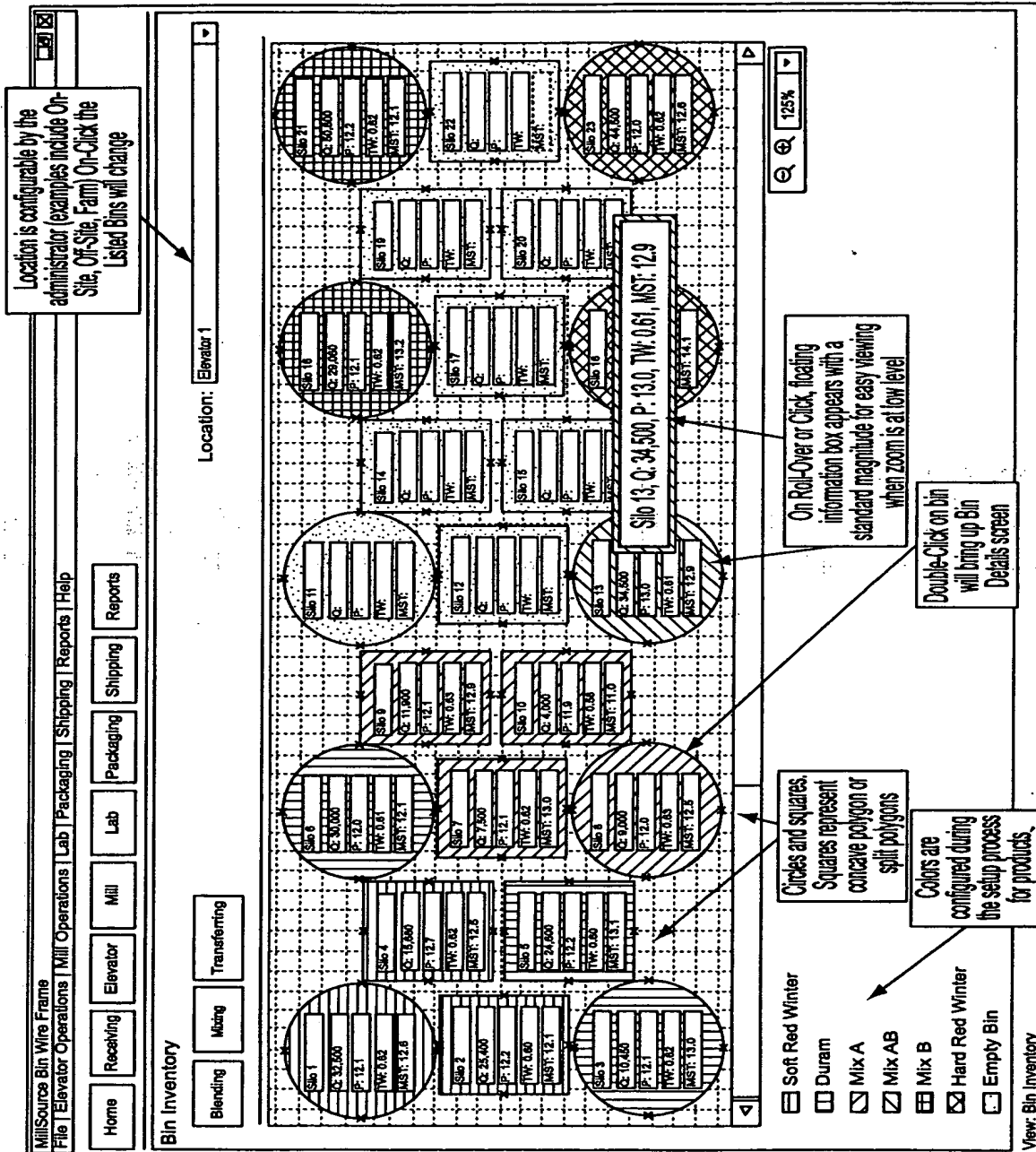


FIG. 13A

14/33

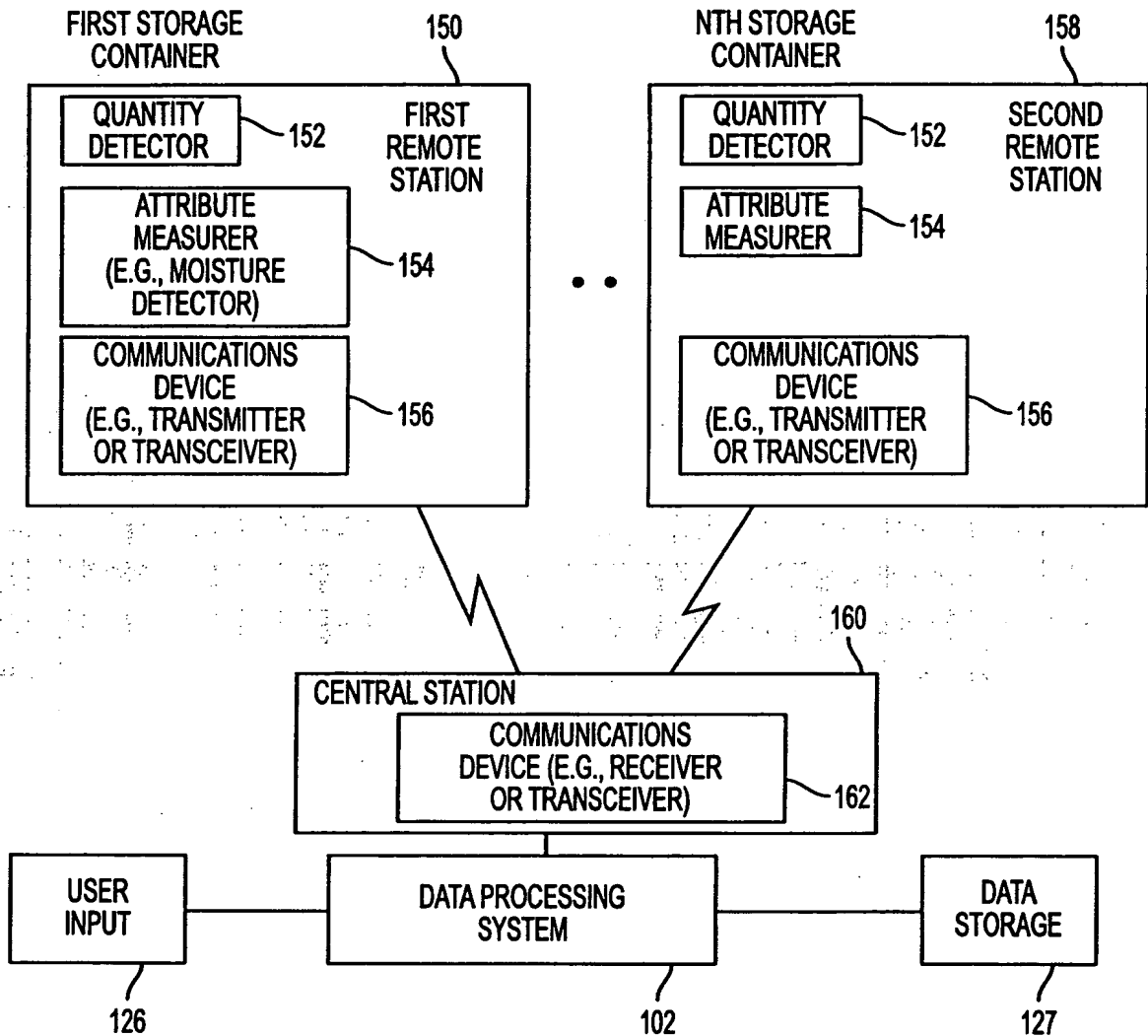


FIG. 13B

Bin Details									
<input type="button" value="Aerate"/>	<input type="button" value="Clean"/>	<input type="button" value="Fumigate"/>	<input type="button" value="Measure-up"/>	<input type="button" value="Sample"/>	<input type="button" value="Turn"/>	<input type="button" value="Treatment"/>	<input type="button" value="Lock"/>	<input type="button" value="Unlock"/>	<input type="button" value="Online"/>
Details    History									
Bin Name: <input type="text" value="Silo 2"/>									
Quantity: <input type="text" value="34,500 Bu"/>									
Commodities: If more than one commodity exists in a bin, then multiples are listed.									
Name Lot A <u>Lot 43</u>									

On-Click sort by column for all column headings

Click lot name will bring up lot details

---

Lot Details									
Name/Number:	<input type="text" value="Lot 1234"/>								
Product:	<input type="text" value="HRW"/>								
Commodity:	<input type="text" value="Grain"/>								
Class:	<input type="text" value="Hard Red Winter"/>								
Variety:	<input type="text" value="# 49596"/>								
Quantity:	<input type="text" value="15,000 Bushels"/>								
	<input type="text" value="4/1/2003 - 12:00 PM"/>								

Non-Editable

**FIG. 15**



MillSource Bin Wire Frame

File | Elevator Operations | Mill Operations | Lab | Packaging | Shipping | Reports | Help

Home

Receiving

Elevator

Mill

Lab

Packaging

Shipping

Reports

Lab

Select either Lot or Bin:

Bin...

Lot...

Existing Analysis (Click to edit):

Name/Number

Bin/Lot

Date/Time

New Analysis

Analysis Information

Date...

3/25/2003

Time...

2:00 PM

Analysis Number/Name:

Attribute Values

Protein:

%

Moisture:

%

Damage:

%

Foreign Material:

%

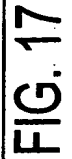
Add/Save

Reset

Void

FIG. 16

## 18/33



19/33

Storage Summary

Bin Inventory

Selected Bin: All

Commodity: Hard Red Winter

Date: 9/9/2002 - 12/05/2002

Silo 1  
Headquarters location  
Lat/Long

Capacity	Current	Protein	Moisture	Last Add	Last Draw
150,000bu	98,088bu	13.3	12.0	12/01/2002	12/05/2002

Lot #	Date	Variety	Protein	Moisture	Test Wt.	FM	Quantity
4567	09/09/2002	HRW - Duram	13.2	12.1	61.1	1	5,144
4568	09/09/2002	HRW - Duram	13.3	11.8	61.0	2	5,255
4569	09/10/2002	HRW - Duram	13.5	12.0	60.4	1.3	6,123
4575	10/12/2002	HRW - Duram	13.5	12.0	60.2	1	5,100
4580	10/30/2002	HRW - Duram	13.3	12.0	61.0	2	5,315
4582	11/23/2002	HRW - Duram	13.4	12.2	60.5	2	5,533
4583	12/01/2002	HRW - Duram	13.3	12.1	60.0	1	5,500

Silo 2  
Headquarters location  
Lat/Long

Capacity	Current	Protein	Moisture	Last Add	Last Draw
100,000bu	75,050bu	14.0	11.5	11/01/2002	11/30/2002

Lot #	Date	Variety	Protein	Moisture	Test Wt.	FM	Quantity
6767	09/10/2002	HRW - Yuma	14.2	12.1	61.1	3	6,445
6768	09/10/2002	HRW - Yuma	13.8	11.3	61.0	3.6	4,355
6769	10/01/2002	HRW - Yuma	14.5	12.0	60.3	4	5,232

FIG. 18

20/33

Event Report  
 Selected Bin: Silo-1  
 Commodity: Hard Red Winter  
 Date: 11/01/2002 - 12/05/2002

Silo 1  
 Headquarters location  
 Lat/Long

SUMMARY

Capacity	Current	Protein	Moisture	Last Add	Last Draw
150,000bu	98,088bu	13.3	12.0	12/01/2002	12/05/2002

OPERATION / EVENT

Allocate Inbound

Create Lot: 4568

Operator: Joe Smith

Start Date/Time	Stop Date/Time	Variety	Protein	Moisture	Test Wt.	Quantity	Locked	Unlocked
11/09/2002 10:10am	11/09/2002 10:12am	HRW - Duram	14.2	12.1	61.1	5,122	N	Y

Aerate Bin

Lock Bin

Unlock Bin

Operator: John Doe

Start Date/Time	Stop Date/Time	Variety	Protein	Moisture	Test Wt.	Quantity	Locked	Unlocked
11/10/2002 03:30pm	11/12/2002 08:00am						Y	Y

FIG. 19

**TITLE: METHOD AND SYSTEM FOR MANAGEMENT OF  
THE PROCESSING OF AGRICULTURAL PRODUCTS**  
**INVENTOR: William Robert Pope, et. al.**  
**DOCKET #: 16527 /deb, mah**

21/33

**Supplier Report**  
**Date: 1/01/2002 - 12/09/2002**  
**Commodity: Hard Red Winter**

Name	Quantity/bu
Joe Farmer RR2 Box 46 Anywhere, NE 68888 (402)333-3333	54,000
Dakota Farms Box 27 Anywhere, SD 69999 (999)999-9999	65,656
Country Elevators Box 98 Anywhere, SD 69999 (999)677-7777	98,095
<b>Total Quantity:</b>	<b>217,751</b>

**FIG. 20**

Transfer

Find Transfer...

Void...

Transfer Name/Number: T3/30/2003 - 1

Bin...

Product

Location - Bin

Available Quantity

Transfer Quantity

HRW

Elevator 1 - Silo 15

34,500 Bu

15,000

Lot Name/Number	Product	Location - Bin	Available Space	Transfer Percentage	
T3/30/2003 - 1 - 1	Destination 1...	HRW	Elevator 1 - Silo 15	34,500 Bu	50
T3/30/2003 - 1 - 2	Destination 2...	HRW	Elevator 1 - Silo 15	34,500 Bu	50
	Destination 3...				
	Destination 4...				

Total Transfer:

100

Commit

Reset

Close

Print

Copies: 1

FIG. 21

23/33

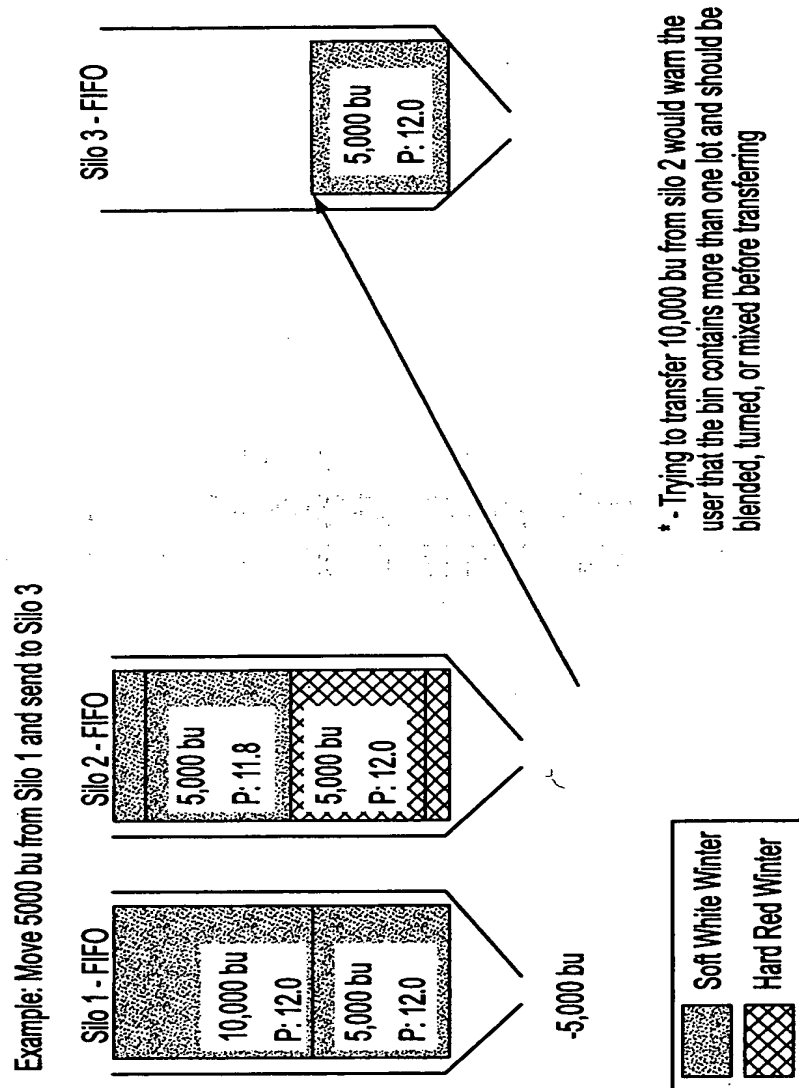


FIG. 22

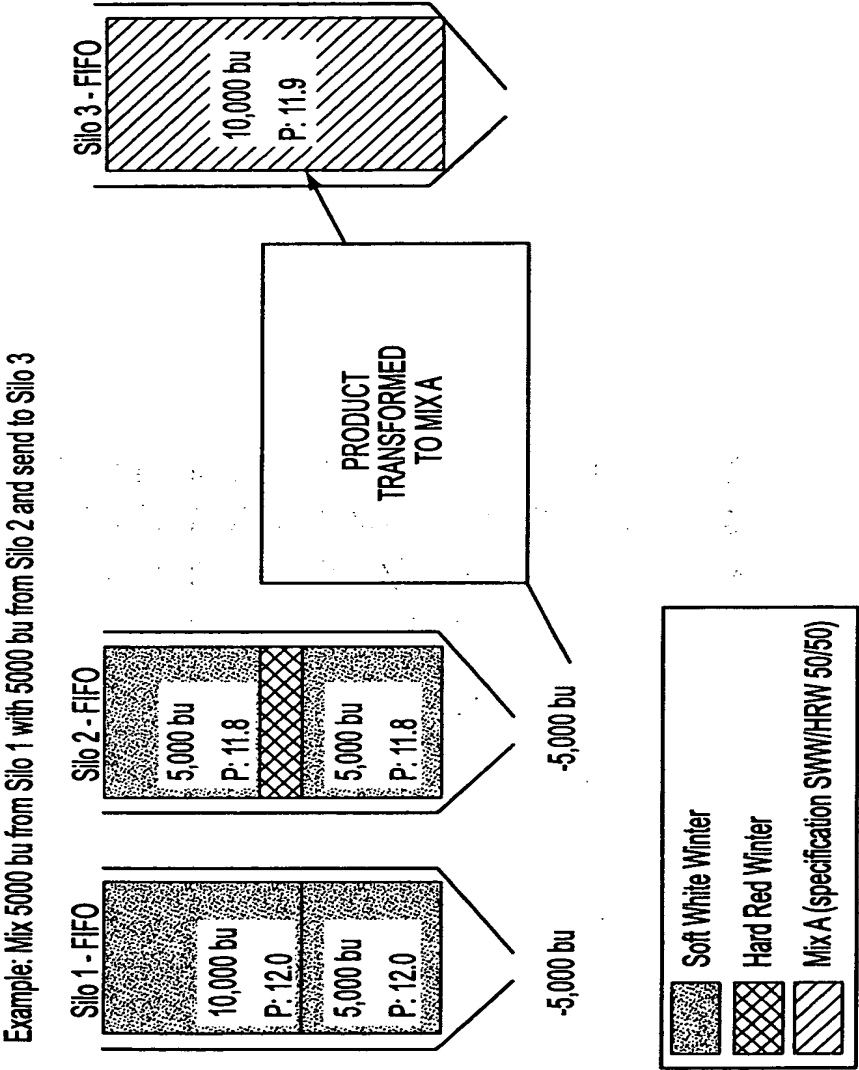


FIG. 23



25/33

MillSource Bin Wire Frame  
File | Elevator Operations | Mill Operations | Lab | Packaging | Shipping | Reports | Help

Home | Receiving | Elevator | Mill | Lab | Packaging | Shipping | Reports

General Configuration

Auto Name/Number Preference

Receiving

☐ Random Number  
☐ Incremental (starts with 1 or last number)  
☐ Incremental w/ Date  
Date Format: [MMDDYY] ▼  
☒ None (requires manual entry)

Blending

☐ Random Number  
☐ Incremental (starts with 1 or last number)  
☐ Incremental w/ Date  
Date Format: [MMDDYY] ▼  
☒ None (requires manual entry)

Mixing

☐ Random Number  
☐ Incremental (starts with 1 or last number)  
☐ Incremental w/ Date  
Date Format: [MMDDYY] ▼  
☒ None (requires manual entry)

Transferring

☐ Random Number  
☐ Incremental (starts with 1 or last number)  
☐ Incremental w/ Date  
Date Format: [MMDDYY] ▼  
☒ None (requires manual entry)

Mill Transfer

☐ Random Number  
☐ Incremental (starts with 1 or last number)  
☐ Incremental w/ Date  
Date Format: [MMDDYY] ▼  
☒ None (requires manual entry)

Attribute Value Calculation Preference

Bins

☐ Sample Value  
☒ Weighted Average

Lots

☐ Sample Value  
☒ Weighted Average

Label Value Preference

Auto-Numbering of receiving, blends, mixes, transfers, and milling transfers preceded with R,B,M,T, and MT, respectively.

Save

View: General Configuration

'Bin Board' attribute preferences

FIG. 24

26/33

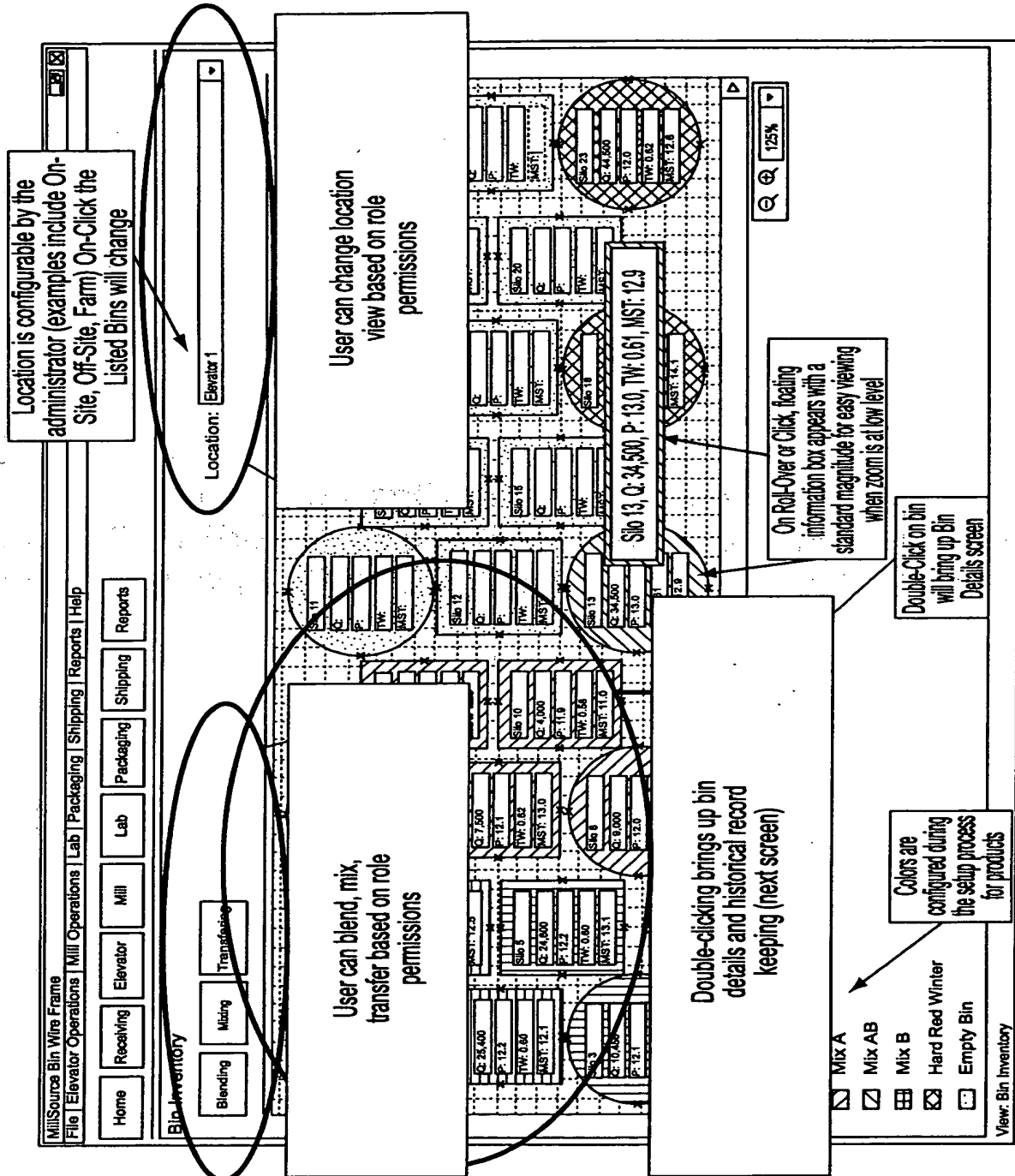


FIG. 25

**27/33**

**FIG. 26**

28/33

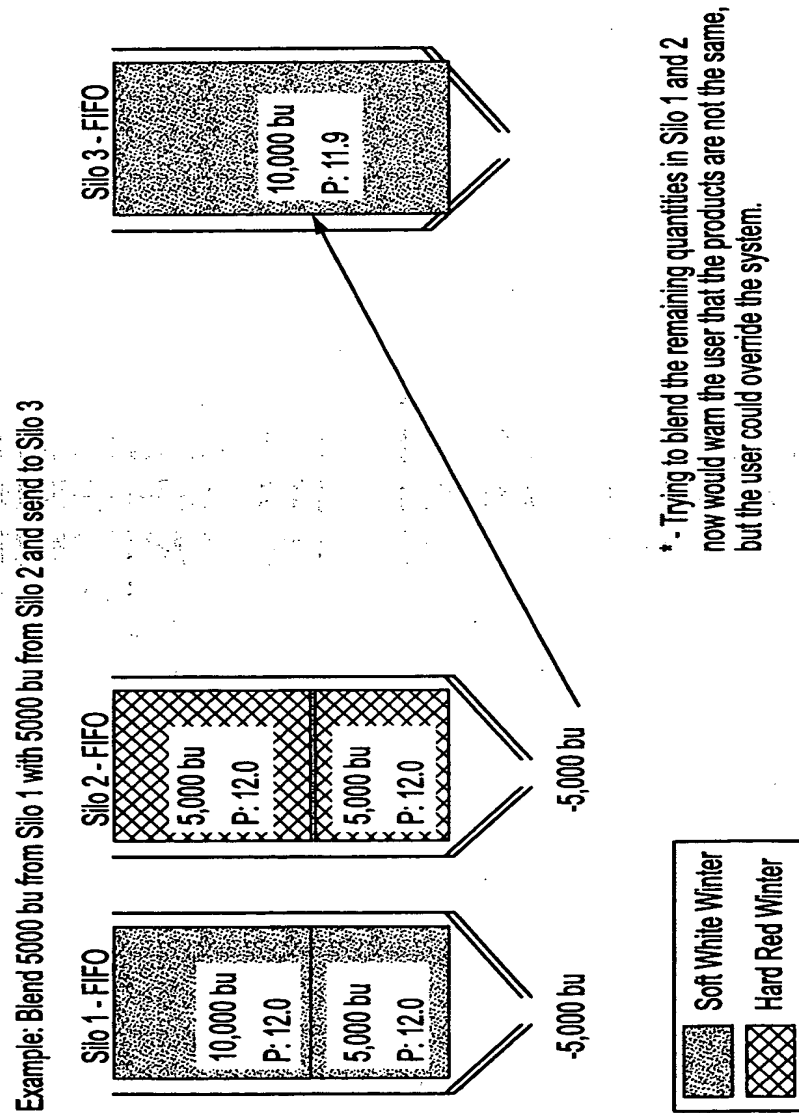


FIG. 27

29/33

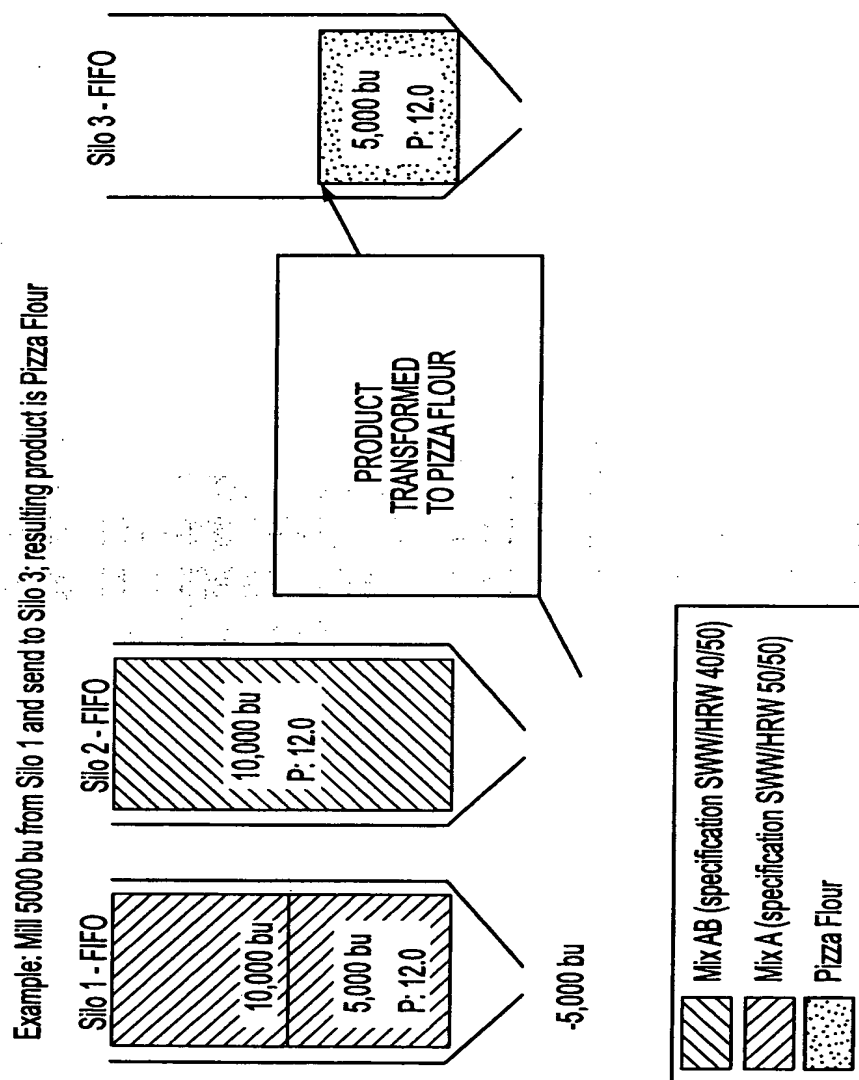


FIG. 28

## 30/33

**FIG. 29**

31/33

**FIG. 30**

**32/33**

**FIG. 31**



33/33

**FIG. 32**